

CLAIMS

- 5 1. Bolt (10) that can be pressed into a metal sheet in a torsion-proof and ejection-proof manner having a head (12) the side of which facing the metal sheet in the set state is having radially extending webs (22) which during the setting are impressed into the metal sheet, wherein in the centre of the
10 head a cylindrical winding support (14) is positioned which is extending through the metal sheet and protrudes on the other side thereof and which is having in vicinity of the side of the head (12) facing the metal sheet a circumferential annular groove (20) into which the sheet metal material
15 that is displaced during the setting process can be pressed, characterised in that the side of the head (12) facing the metal sheet completely or partly is provided with a rubber-elastic sealing material (110; 120; 130).
- 20 2. Bolt according to claim 1, characterised in that the webs (22) basically are having a rectangular cross-section with their side walls (24) extending perpendicular to the side of the head (12) facing the metal sheet.
- 25 3. Bolt according to claim 1 or 2, characterised in that the webs (22) in their radially exterior region are tapering off flatly.
- 30 4. Bolt according to any of the claims 1 to 3, characterised in that the webs (22) in their radially exterior region (21) are tapering off laterally rounded.

5. Bolt according to any of the claims 1 to 4, characterised in that it can be pressed into metal sheets with holes without special additional shapes as collars or the like.

5 6. Bolt according to any of the claims 1 to 5, characterised in that merely the area outwardly of the webs (22) are provided with the rubber-elastic sealing material (110) while the webs (22) themselves are free from the sealing material (110).

10 7. Bolt according to any of the claims 1 to 5, characterised in that the sealing material (120) exclusively is provided in the region of the outer edge of the head (12) facing the metal sheet.

15 8. Bolt according to any of the claims 1 to 5, characterised in that the sealing material (130) exclusively is provided in an annular groove (134) in the head (12) which is positioned outwardly of the radial extension of the webs (22) but within
20 the outer edge (132) of the head (12) facing the metal sheet.

25 9. Bolt according to any of the preceding claims, characterised in that the sealing material (110; 120; 130) is consisting of polyurethane, polyamide, polyolefins, polytetrafluorethylene or epoxy resin.